



Micro Commercial Components



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MCL103A/B/C

350 mA Schottky
Barrier Rectifier
20 to 40 Volts

Features

- Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1
Saving space
High Reliability
Low reverse current and low forward voltage
Micro Melf package, fits onto SOD 323/SOT 23 Footprints
Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

Maximum Ratings

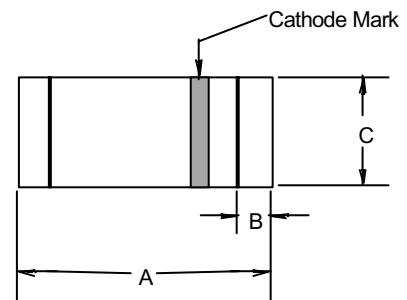
Table with 4 columns: Parameter, Symbol, Value, Test Conditions. Rows include Repetitive peak reverse voltage, Repetitive peak forward current, Forward current, Power dissipation, Storage temperature range, and Junction to ambient.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Table with 4 columns: Parameter, Symbol, Value, Test Conditions. Rows include Forward voltage, Reverse current, Diode capacitance, and Reverse recovery time.

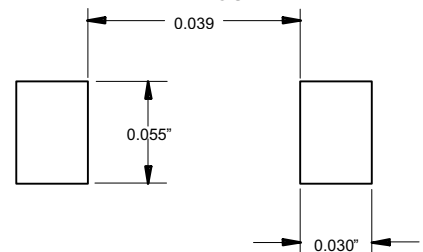
Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 7(C)-I.

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DIMENSIONS table with columns for DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows A, B, and C.

SUGGESTED SOLDER PAD LAYOUT



# MCL103A/B/C

Characteristics ( $T_j=25^\circ\text{C}$  unless otherwise specified)

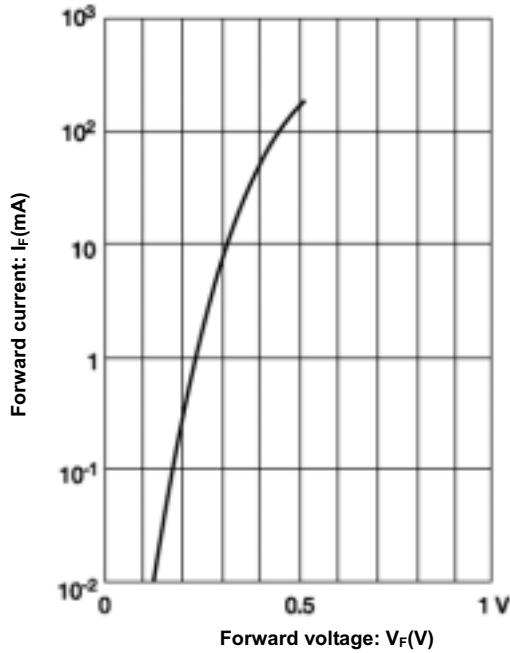


Figure 1. Typical variation of forward current vs. forward voltage for primary conduction through the schottky barrier

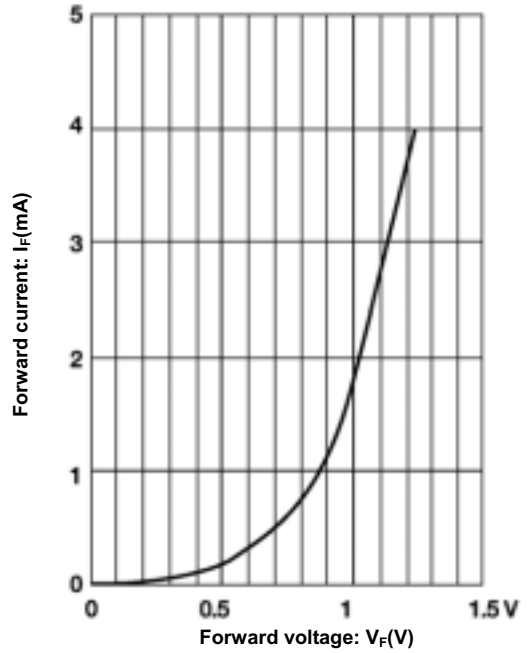


Figure 2. Typical high current forward conduction curve  $t_p=300\text{ms}$ , duty cycle=2%

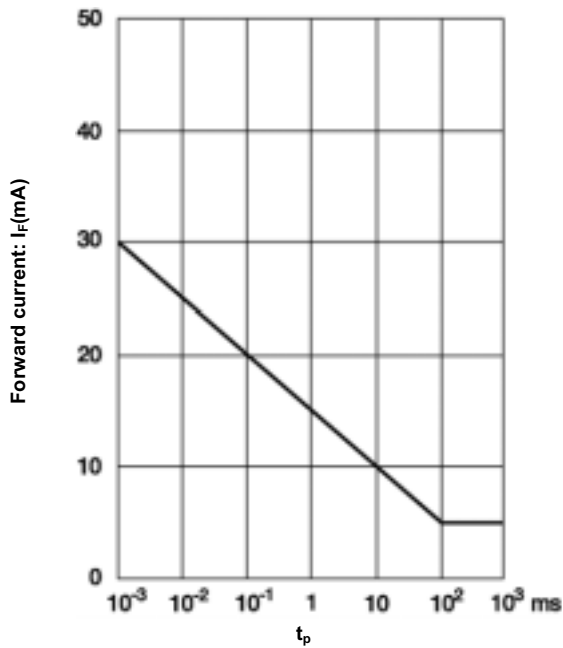


Figure 3. Typical non repetitive forward surge current vs. pulse width

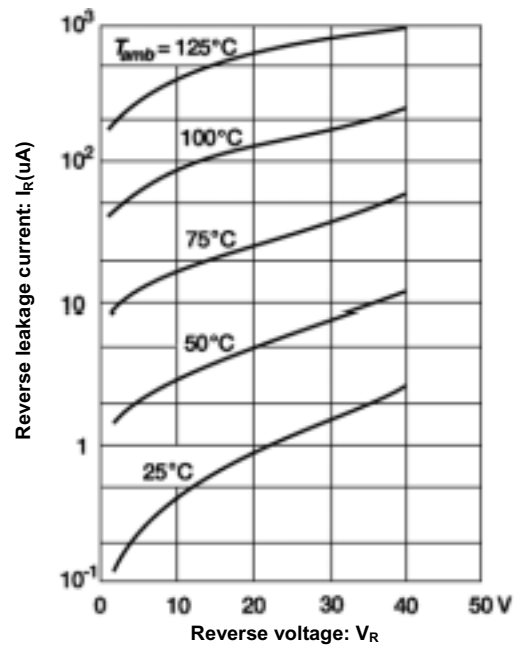


Figure 4. Typical variation of reverse current at various temperatures

# MCL103A/B/C

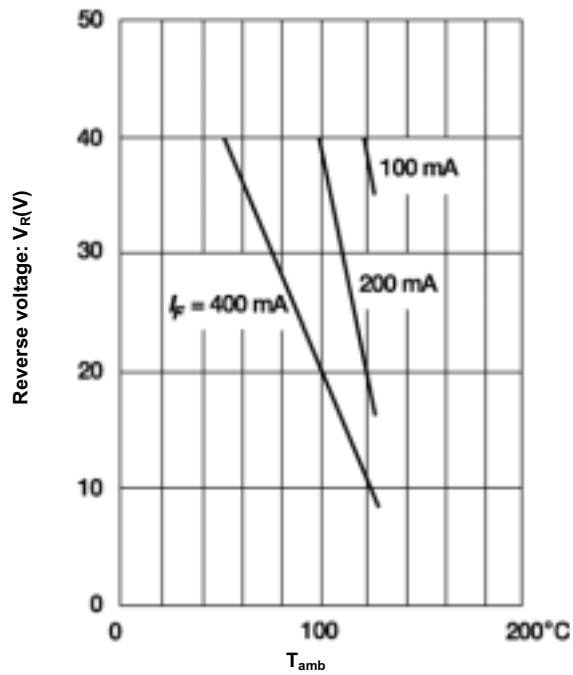


Figure 5. Blocking voltage duration vs. temperature at various average forward current

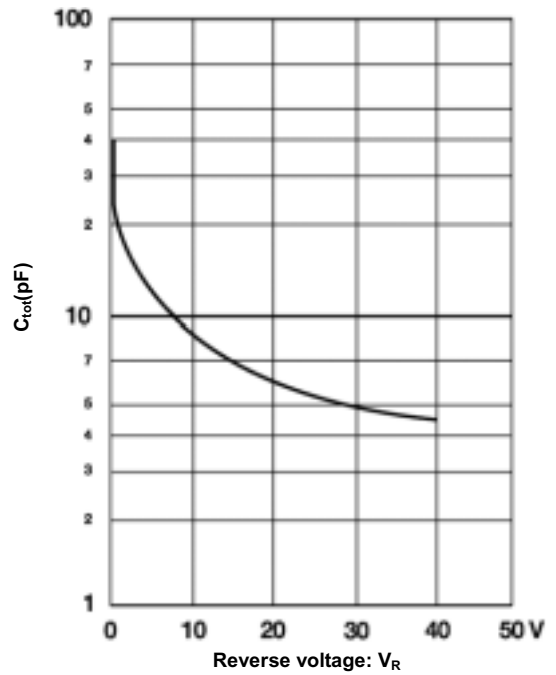


Figure 6. Typical capacitance vs. reverse voltage



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

**\*\*\*IMPORTANT NOTICE\*\*\***

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MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

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